

MiMo Junior Series

Dual Band 3x3 MIMO 802.11ac/b/g/n Long Range Outdoor Access Point
533MHz CPU / 2.4Ghz 300Mbps / 5Ghz 867Mbps

Model: YBTD600SB



KEY FEATURES

- Qualcomm Atheros 533MHz Processor QCA9344
- IEEE 802.11ac/a/b/g/n compliant
- 2.4GHz and 5GHz concurrent radios
- 2.4GHz 28dBm and 5GHz 23dBm aggregate power
- Data rates of up to 867Mbps in 802.11ac 80 MHz channels
- Antenna Alignment Site Survey - LEDs/Buzzer
- Distance Adjustment for long range transmission
- Built-in 2 x 7dBi 2.4G Omni Dipole array antenna
- Built-in 17dBi 5GHz Dual-polarization antenna
- Weatherproof Casing
- 2 x RP-SMA Male Connector for External Antenna (optional)
- Support AP Mass Management Software via SNMP Protocol

APPLICATIONS

- Dual band, dual concurrent AP
- 802.11ac+802.11bgn AP / 802.11an+802.11bgn AP
- Point-to-Point / Point-to-Multipoint / Coverage
- CPE

Specifications

Chipset	CPU: Qualcomm Atheros AR9344 700Mhz RF: Qualcomm Atheros AR9344 (2.4Ghz) RF: Qualcomm Atheros QCA9882 (5Ghz)
System Memory	128MB DDR2
NOR Flash	16MB
Antenna	2.4Ghz: 2 x Integrated 7dBi Omni Dipole array antenna 5Ghz: Integrated 17dBi Dual-polarization antenna
Interface	2x Gigabit Port (Auto-MDI/MDI-X) 1x JTAG 14 Pin Connector ¹ 1x Serial Port 4 Pin Connector ¹
Reset Button	Yes
LED	Indicators: LAN0 Activity, LAN1 Activity, 4x Other Indicator
Power Over Ethernet	1x Passive 24V PoE on LAN0
DC Power	1x DC Jack Connector: 24 - 48V
Power Consumption	20 Watt (Max)
Operating System	CompexWRT or OpenWRT ²
Certification	FCC and CE Certified, RoHS Compliance
Environment	Temperature: Operating: -20°C to 70°C, Storage: -40°C to 90°C Humidity (non-condensing): Operating: 5% to 95%, Storage: Max. 90%
Enclosure Type	Weatherproof and IP55 Compliant
Dimensions	161.5 x 161.5 x 80 mm
Extras	Surge Arrester, Watchdog Timer

OUTDOOR ACCESS POINT

Model:YBTD600SB

RF Performance Table

	Data Rate	TX Power (per chain)	Tolerance
2.4GHz 802.11b/g	6Mbps	22dBm	±2dB
	9Mbps	22dBm	±2dB
	12Mbps	22dBm	±2dB
	18Mbps	22dBm	±2dB
	24Mbps	22dBm	±2dB
	36Mbps	22dBm	±2dB
	48Mbps	21dBm	±2dB
	54Mbps	20dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	22dBm	±2dB
	MCS 1	22dBm	±2dB
	MCS 2	22dBm	±2dB
	MCS 3	22dBm	±2dB
	MCS 4	22dBm	±2dB
	MCS 5	21dBm	h±2dB
	MCS 6	20dBm	±2dB
	MCS 7	20dBm	±2dB
	MCS 8	18dBm	±2dB
	MCS 9	16dBm	±2dB

	Data Rate	TX Power (per chain)	Tolerance
2.4GHz 802.11n HT40	MCS 0	22dBm	±2dB
	MCS 1	22dBm	±2dB
	MCS 2	22dBm	±2dB
	MCS 3	22dBm	±2dB
	MCS 4	22dBm	±2dB
	MCS 5	21dBm	±2dB
	MCS 6	20dBm	±2dB
	MCS 7	20dBm	±2dB
	MCS 8	18dBm	±2dB
	MCS 9	16dBm	±2dB

	Data Rate	TX Power (per chain)	TX Power (4 chains)	Tolerance
5GHz 802.11a	6Mbps	22dBm	28dBm	±2dB
	9Mbps	22dBm	28dBm	±2dB
	12Mbps	22dBm	28dBm	±2dB
	18Mbps	22dBm	28dBm	±2dB
	24Mbps	22dBm	28dBm	±2dB
	36Mbps	22dBm	28dBm	±2dB
	48Mbps	21dBm	27dBm	±2dB
	54Mbps	20dBm	26dBm	±2dB
5GHz 11n/ac HT40	MCS 0	22dBm	28dBm	±2dB
	MCS 1	22dBm	28dBm	±2dB
	MCS 2	22dBm	28dBm	±2dB
	MCS 3	22dBm	28dBm	±2dB
	MCS 4	22dBm	28dBm	±2dB
	MCS 5	21dBm	27dBm	h±2dB
	MCS 6	20dBm	26dBm	±2dB
	MCS 7	20dBm	26dBm	±2dB
	MCS 8	18dBm	24dBm	±2dB
	MCS 9	16dBm	22dBm	±2dB

	Data Rate	TX Power (per chain)	TX Power (4 chains)	Tolerance
5GHz 11n/ac HT20	MCS 0	22dBm	28dBm	±2dB
	MCS 1	22dBm	28dBm	±2dB
	MCS 2	22dBm	28dBm	±2dB
	MCS 3	22dBm	28dBm	±2dB
	MCS 4	22dBm	28dBm	±2dB
	MCS 5	21dBm	27dBm	±2dB
	MCS 6	20dBm	26dBm	±2dB
	MCS 7	20dBm	26dBm	±2dB
5GHz 11ac HT80	MCS 8	18dBm	24dBm	±2dB
	MCS 0	21dBm	27dBm	±2dB
	MCS 1	21dBm	27dBm	±2dB
	MCS 2	21dBm	27dBm	±2dB
	MCS 3	21dBm	27dBm	±2dB
	MCS 4	21dBm	27dBm	±2dB
	MCS 5	20dBm	26dBm	±2dB
	MCS 6	20dBm	26dBm	±2dB
	MCS 7	20dBm	26dBm	±2dB
	MCS 8	18dBm	24dBm	±2dB
MCS 9	16dBm	22dBm	±2dB	

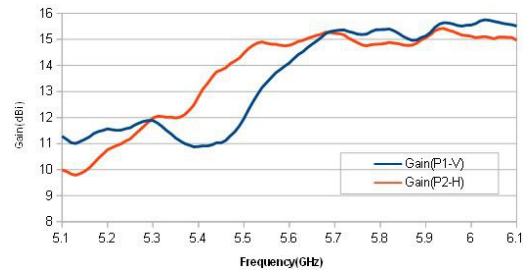
OUTDOOR ACCESS POINT

Model: YBTD600SB

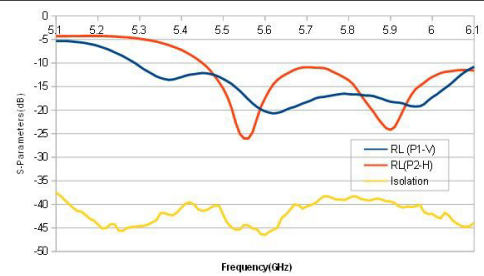
RF Performance Information

Gain	15dBi
Radiation	Directional
Frequency Range	5.5 ~ 6.1 GHz
Polarization	Dual Polarization
Azimuth -3dB Beamwidth	Horizontal(Port 1): 32 degrees Vertical(Port 2): 35 degrees
Elevation -3dB Beamwidth	Horizontal(Port 1): 15 degrees Vertical(Port 2): 17 degrees
Isolation	-37dB (Max)
Front-to-Back Ratio	-35dB (Max)

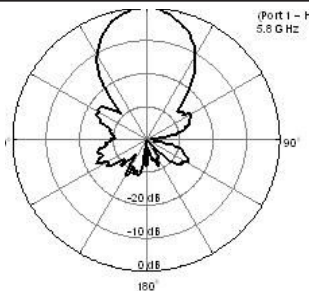
Gain Plot



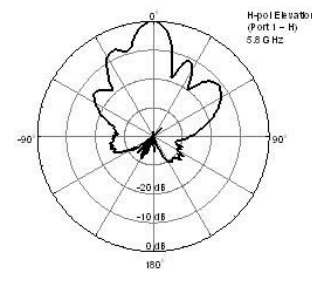
Return Loss & Isolation Plot



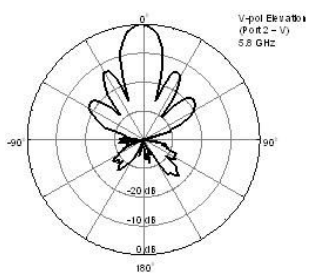
Polar Plots (At 5.6GHz)



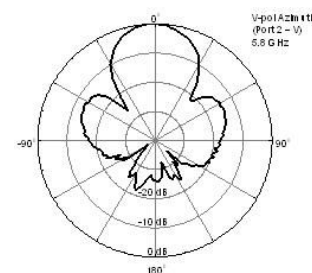
H-Pol Azimuth (Port 1 - H)



H-Pol Elevation (Port 2 - V)



V-Pol Azimuth (Port 2 - V)



V-Pol Elevation (Port 1 - H)

Dimensional Drawing

Features

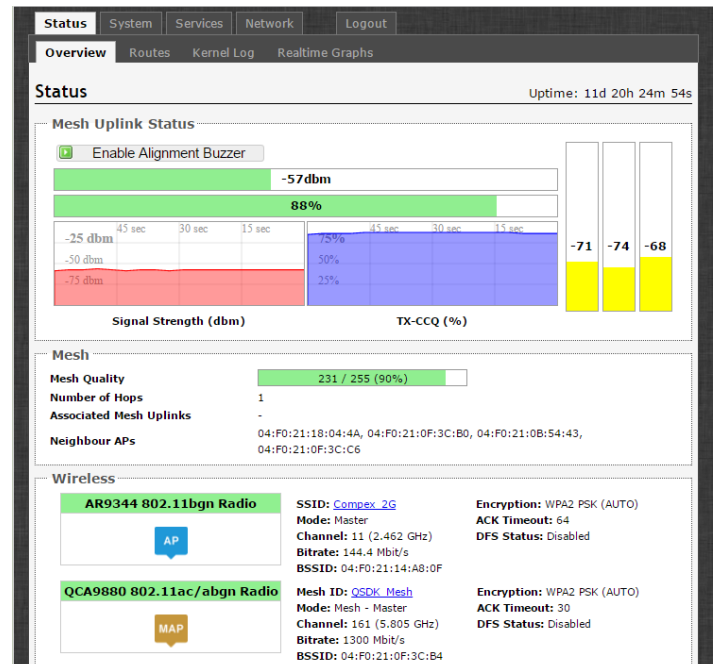
It is developed based on the OpenWRT platform and features the latest Qualcomm Atheros drivers with LuCI web interface. It combines all of the best in one system. It offers many levels of customization.

Powerful Wireless Features

- Qualcomm Atheros Drivers
- Native 802.11ac Support
- Wireless Distribution System (WDS) AP and Client Mode
- Seamless Mesh Networking

Enhanced Control

- User-friendly LuCI Graphical User Interface
- Hotspot and Guest Portal Support
- Powerful Network Diagnostic Utilities
- Real-time Network Load Graphs



Firmware / Software

Supported Operating System	<ul style="list-style-type: none"> OpenWRT Operating System¹ ²
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Ordering Options

Item Code	Antenna	Power Solutions	Radio Output	Power Supply
Model: YBTD600SB	2 x 7dBi @ 2.4GHz Omni Dipole array antenna & 17dBi @ 5GHz Dual-polarization antenna	Passive PoE: 24 - 56V	2.4GHz 26dBm & 5GHz 30dBm	US
Model: YBTD600SB	2 x 7dBi @ 2.4GHz Omni Dipole array antenna & 17dBi @ 5GHz Dual-polarization antenna	Passive PoE: 24 - 56V	2.4GHz 26dBm & 5GHz 30dBm	EU
POEGP2408	Gigabit Passive 24V PoE Injector			

Packaging Content

Item	Quantity	Remark
Outdoor Access Point	1	
Read Me First Documentation	1	
FE Passive 24V PoE Adapter	1	
Mounting Bracket	1	

Customization Options

The MMJ344 Plus can be customized for volume applications. Contact our sales representatives for more information.

Increase System Memory up to 256 MB	Reduce NOR Flash to 8 MB	Adding of Peripherals
Removing of Peripherals	Industrial Grade Chipset	WiFi Module Customization
Antenna Customization	For more customization, contact us at sales@compex.com.sg	

Packaging Information

Carton Dimension	Dimension	Weight	Dimensional Weight
Packaging Box (50pcs)	871 x 320 x 190 mm	7.28kg	11kg